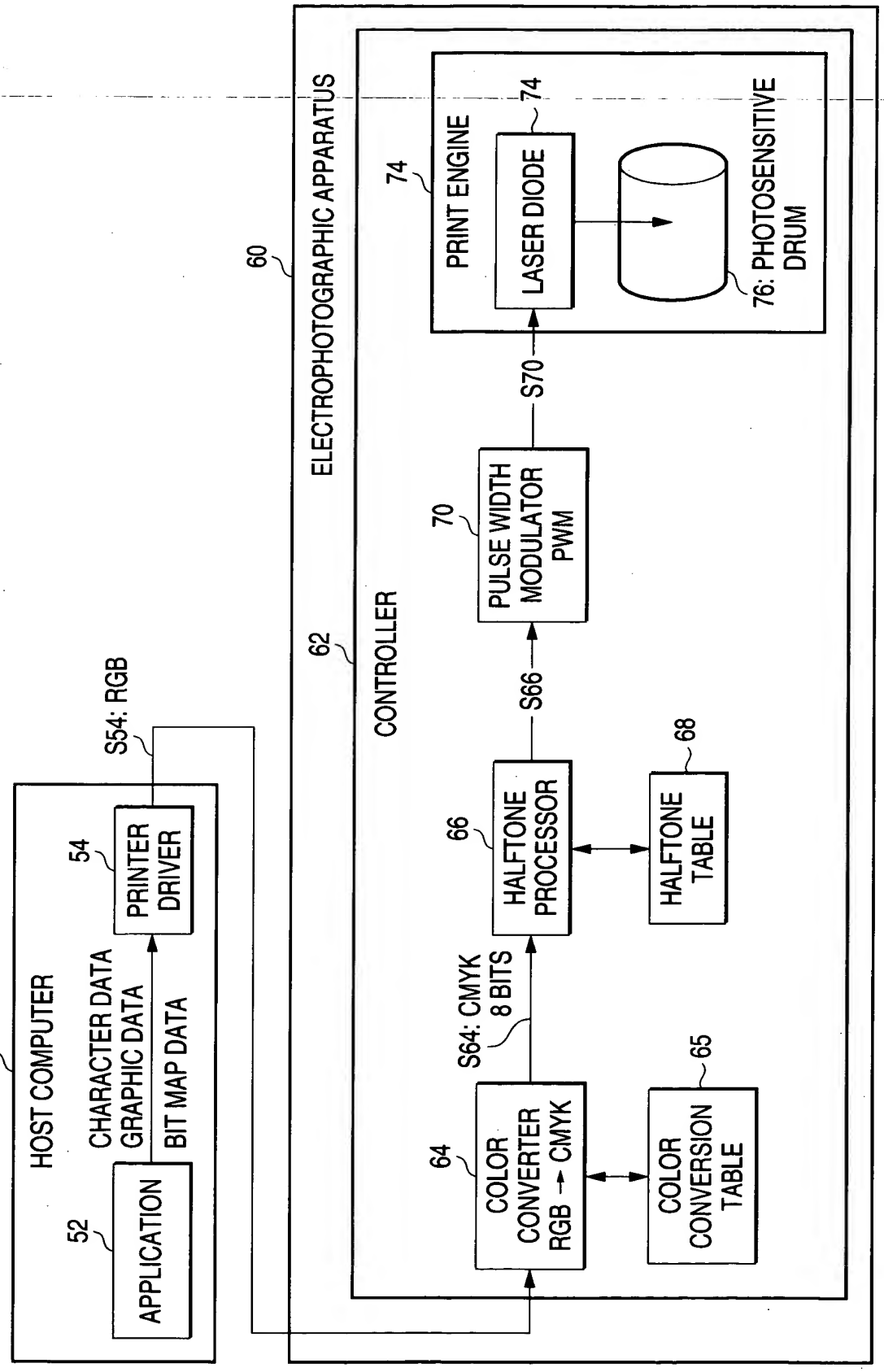
09127 "09044/30

FIG. 1

OVERALL CONFIGURATION OF AN ELECTROPHOTOGRAPHIC SYSTEM



00122T "60Th260

FIG. 2

EXAMPLE HALFTONE TABLE

S64: INPUT DATA
(TONE DATA)

P_{00}	P_{01}	P_{02}	P_{03}	
P_{10}	P_{11}	P_{12}	P_{13}	
P_{20}	P_{21}	P_{22}	P_{23}	
P_{30}	P_{31}	P_{32}	P_{33}	

21: PATTERN MATRIX

7	5	3	8
3	1	1	6
5	2	2	4
7	4	6	8

22: INDEX MATRIX
(A TONE FOR A PATTERN RELATIVE TO PULSE WIDTH)

TONE	1	2	3	4	5	6	7	8
0 ~ 63	0 ~ 255	0 ~ 255	0 ~ 0	0 ~ 0	0 ~ 0	0 ~ 0	0 ~ 0	0 ~ 0
64 ~ 127	255 ~ 255	255 ~ 255	0 ~ 255	0 ~ 255	0 ~ 0	0 ~ 0	0 ~ 0	0 ~ 0
128 ~ 191	255 ~ 255	255 ~ 255	255 ~ 255	255 ~ 255	0 ~ 255	0 ~ 255	0 ~ 0	0 ~ 0
192 ~ 255	255 ~ 255	255 ~ 255	255 ~ 255	255 ~ 255	255 ~ 255	255 ~ 255	0 ~ 255	0 ~ 255

FIG. 3

CONVERSION TABLES FOR A CONVENTIONAL COLOR CONVERTER AND A HALFTONE PROCESSOR

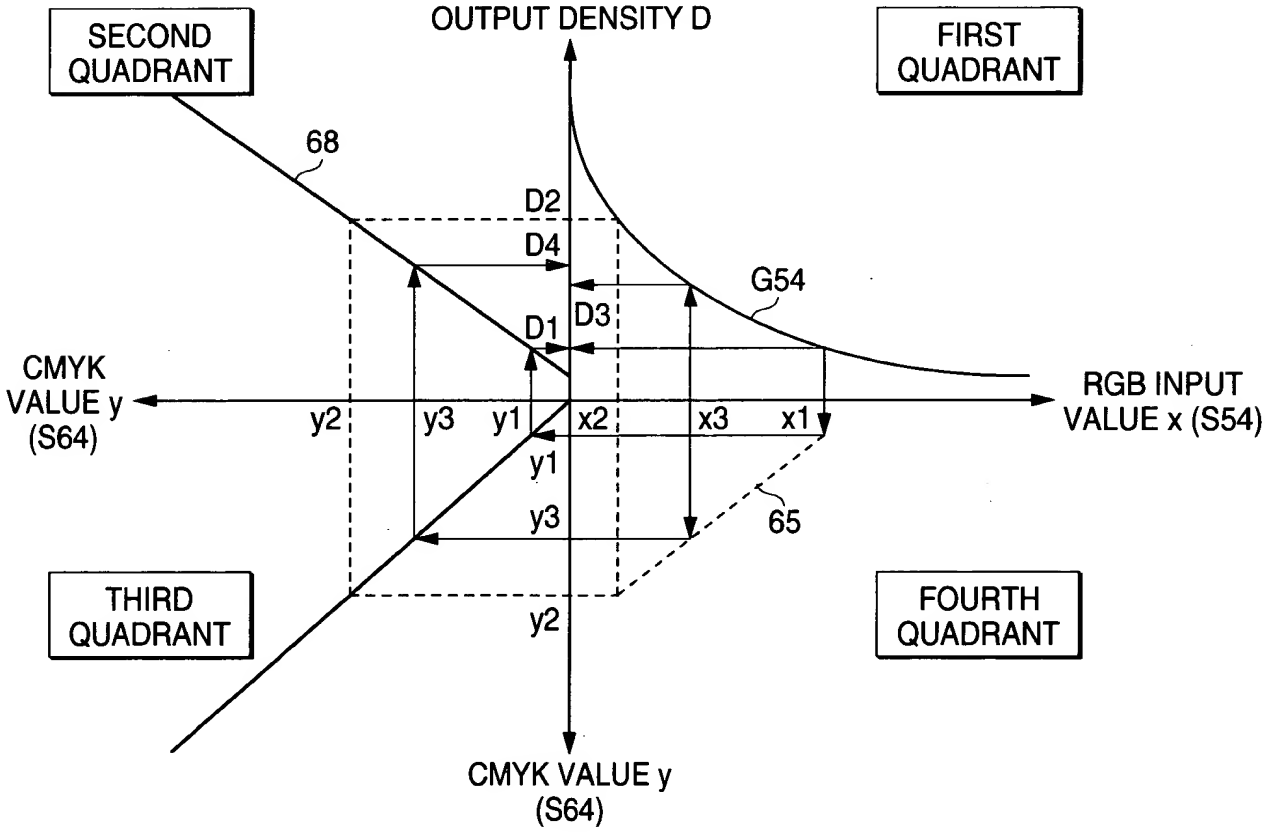


FIG. 4

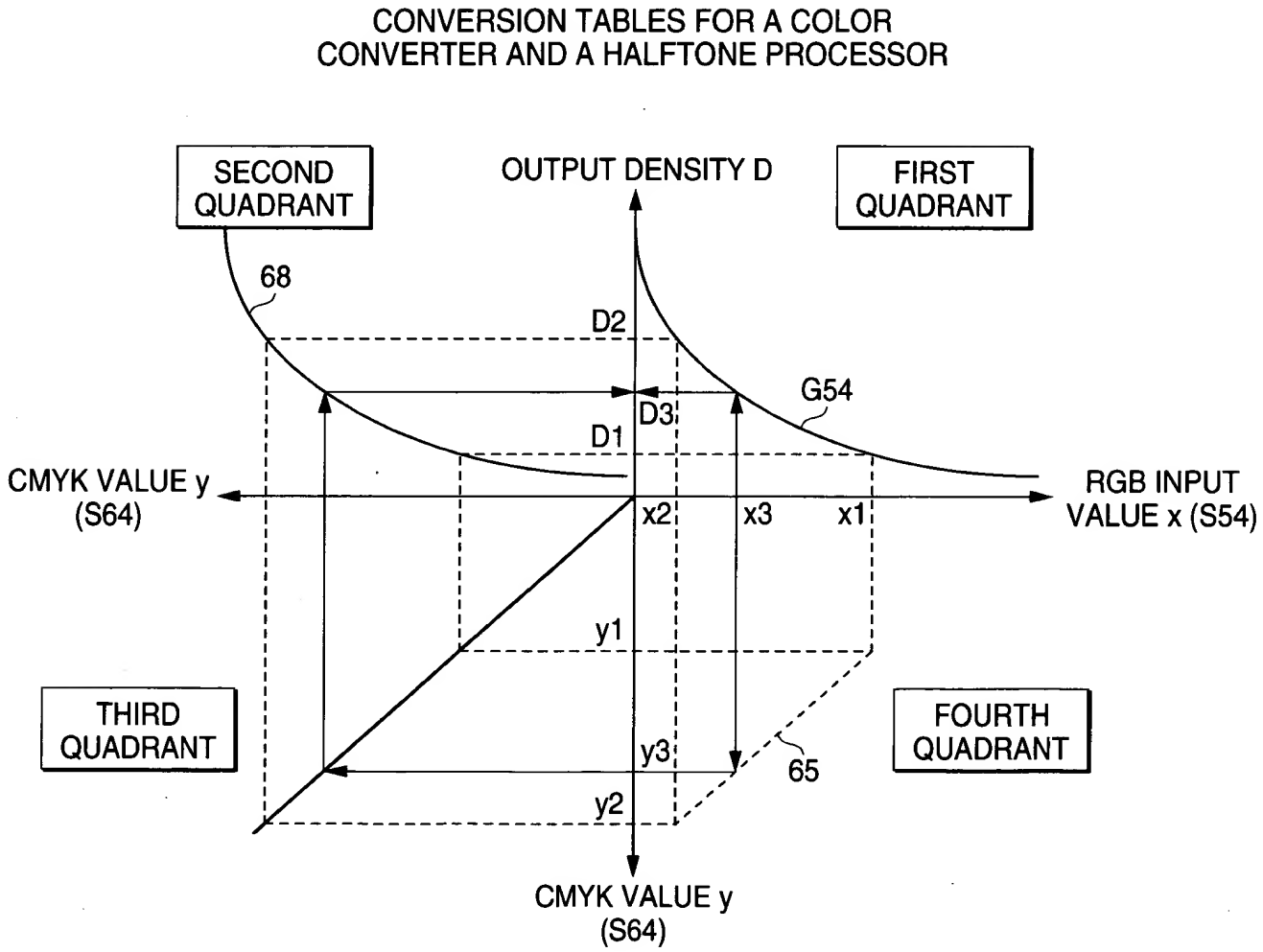

CONVERSION TABLES FOR A COLOR CONVERTER AND A HALFTONE PROCESSOR
SECOND QUADRANT
OUTPUT DENSITY D
FIRST QUADRANT
68
D2
G54
D3
D1
CMYK VALUE y (S64)
RGB INPUT VALUE x (S54)
x2
x3
x1
y1
THIRD QUADRANT
FOURTH QUADRANT
y3
65
y2
CMYK VALUE y (S64)

FIG. 5

OVERALL CONFIGURATION OF AN ELECTROPHOTOGRAPHIC SYSTEM

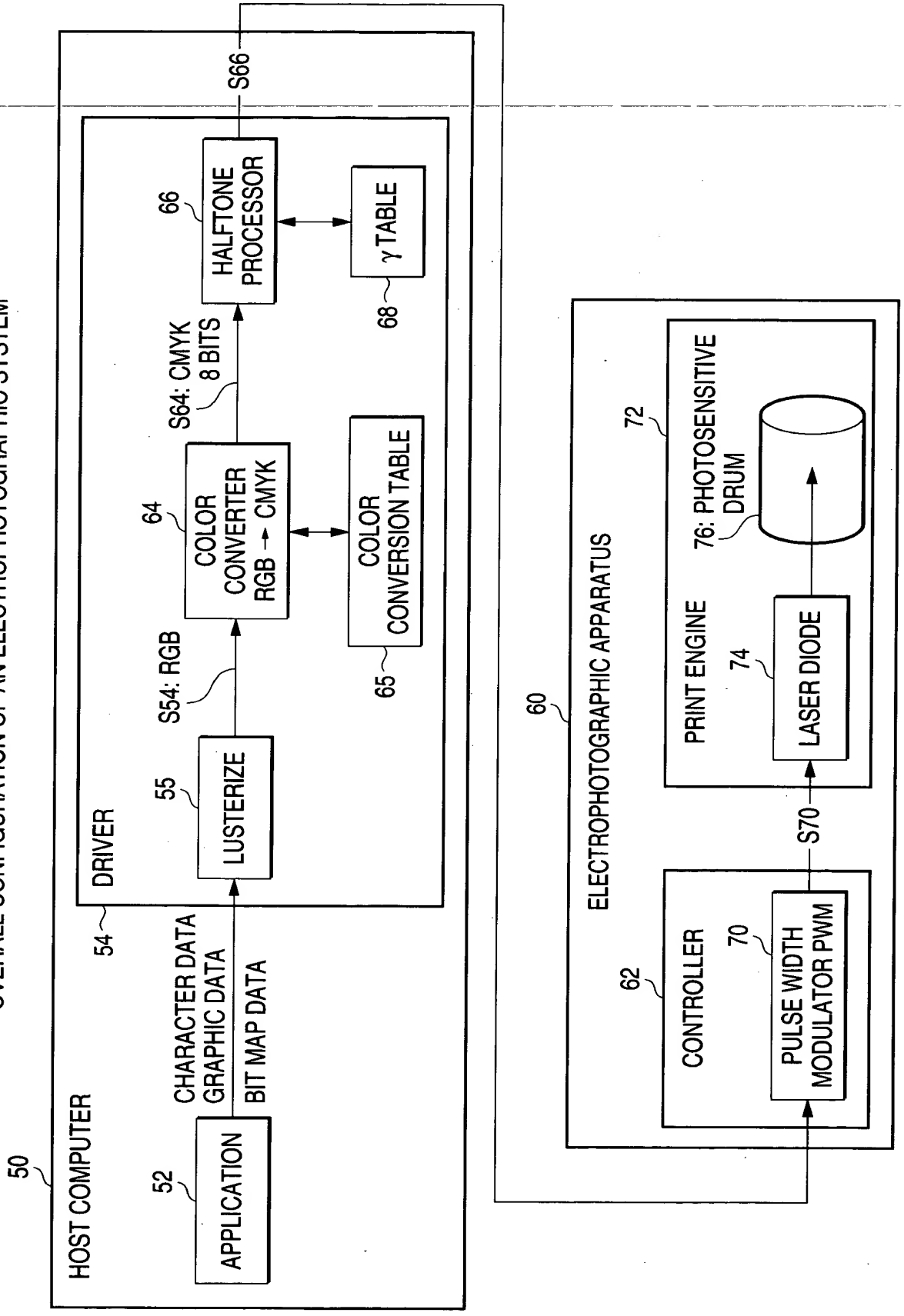


FIG. 6

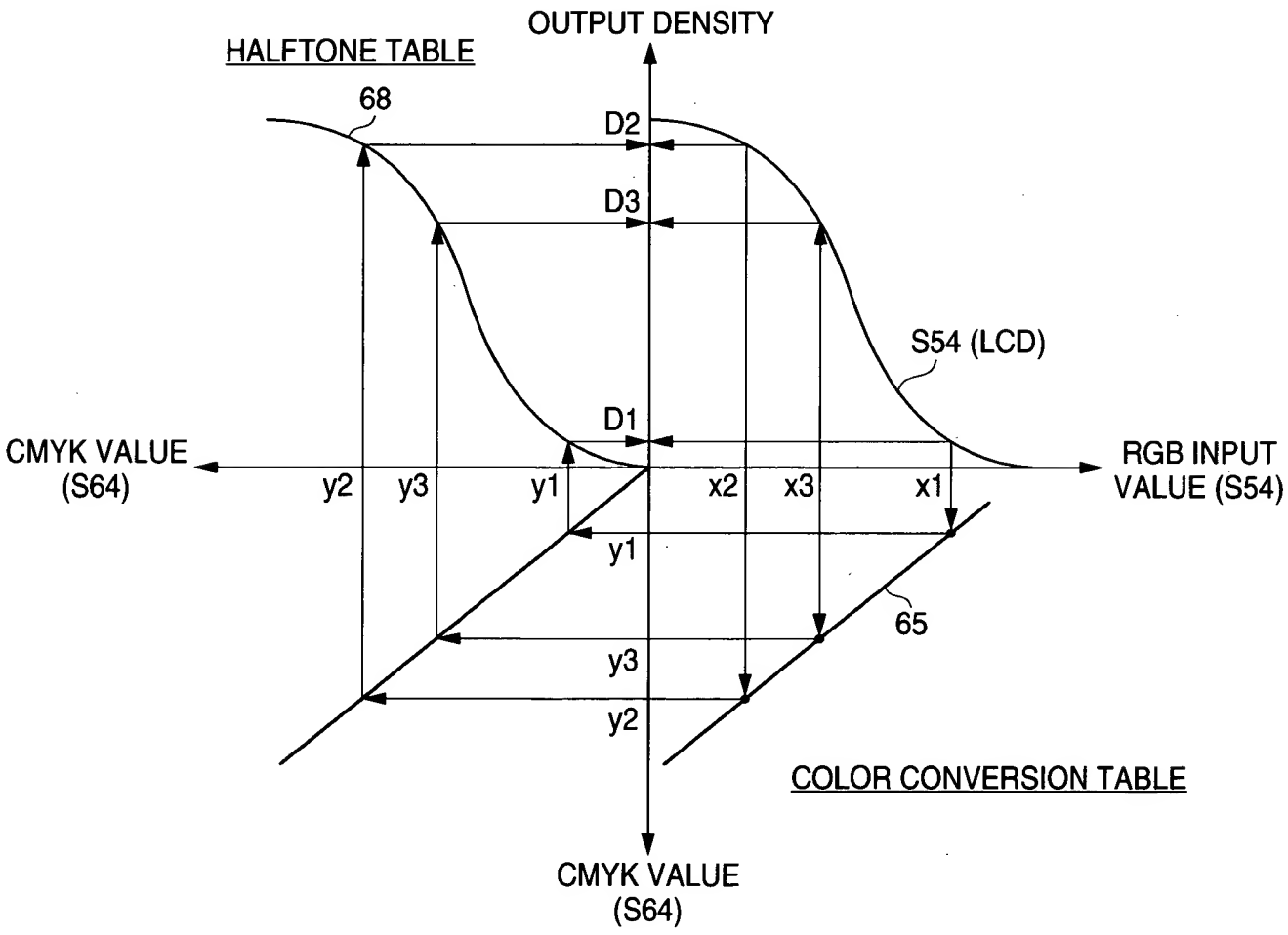

WHEN RGB IS USED FOR LCD
OUTPUT DENSITY
HALFTONE TABLE
68
D2
D3
S54 (LCD)
D1
CMYK VALUE
(S64)
y2
y3
y1
x2
x3
x1
RGB INPUT
VALUE (S54)
y1
65
y3
y2
COLOR CONVERSION TABLE
CMYK VALUE
(S64)

FIG. 7

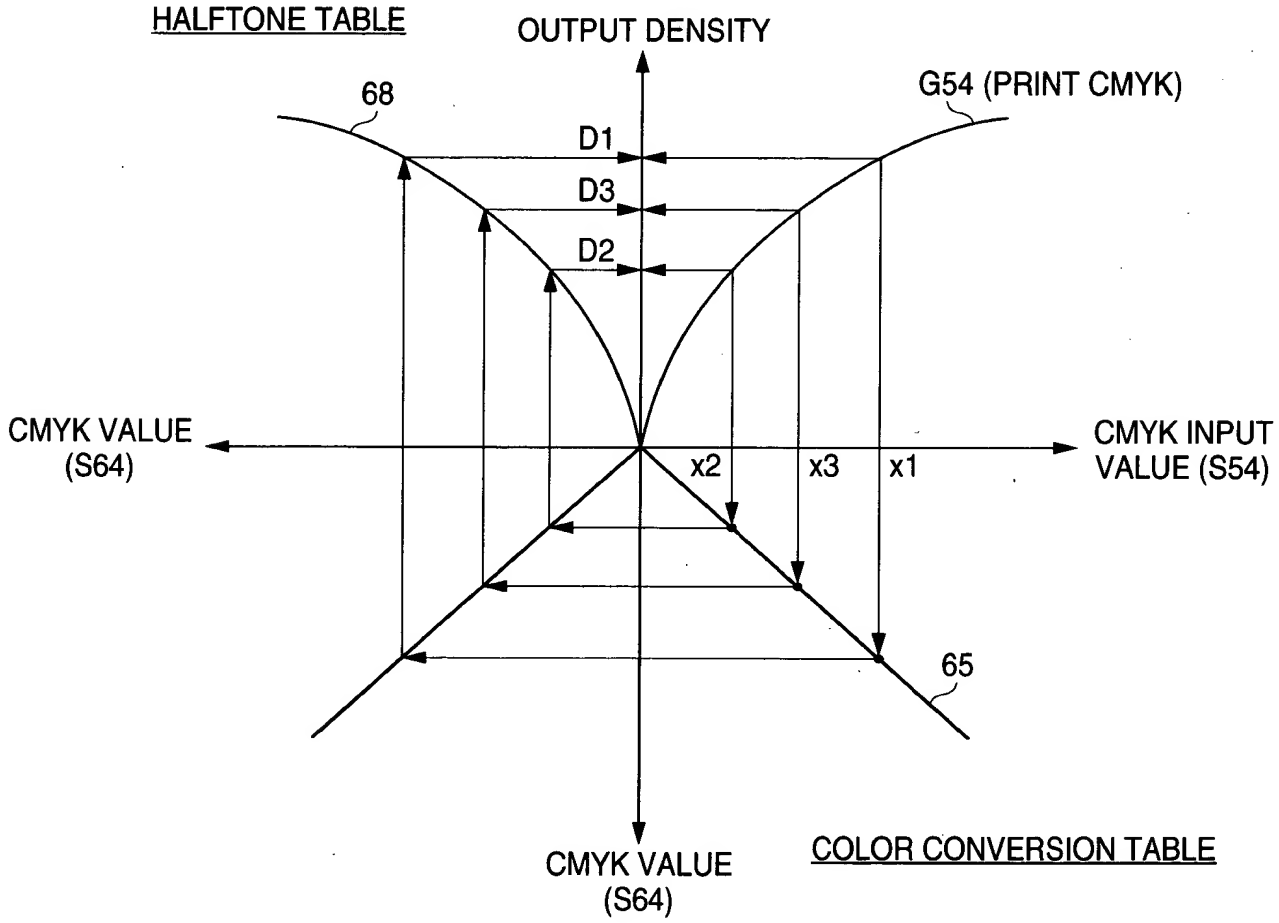

WHEN CMYK IS USED FOR PRINTING
HALFTONE TABLE
OUTPUT DENSITY
68
G54 (PRINT CMYK)
D1
D3
D2
CMYK VALUE (S64)
CMYK INPUT VALUE (S54)
x2
x3
x1
65
CMYK VALUE (S64)
COLOR CONVERSION TABLE

FIG. 8

WHEN CIELab IS USED

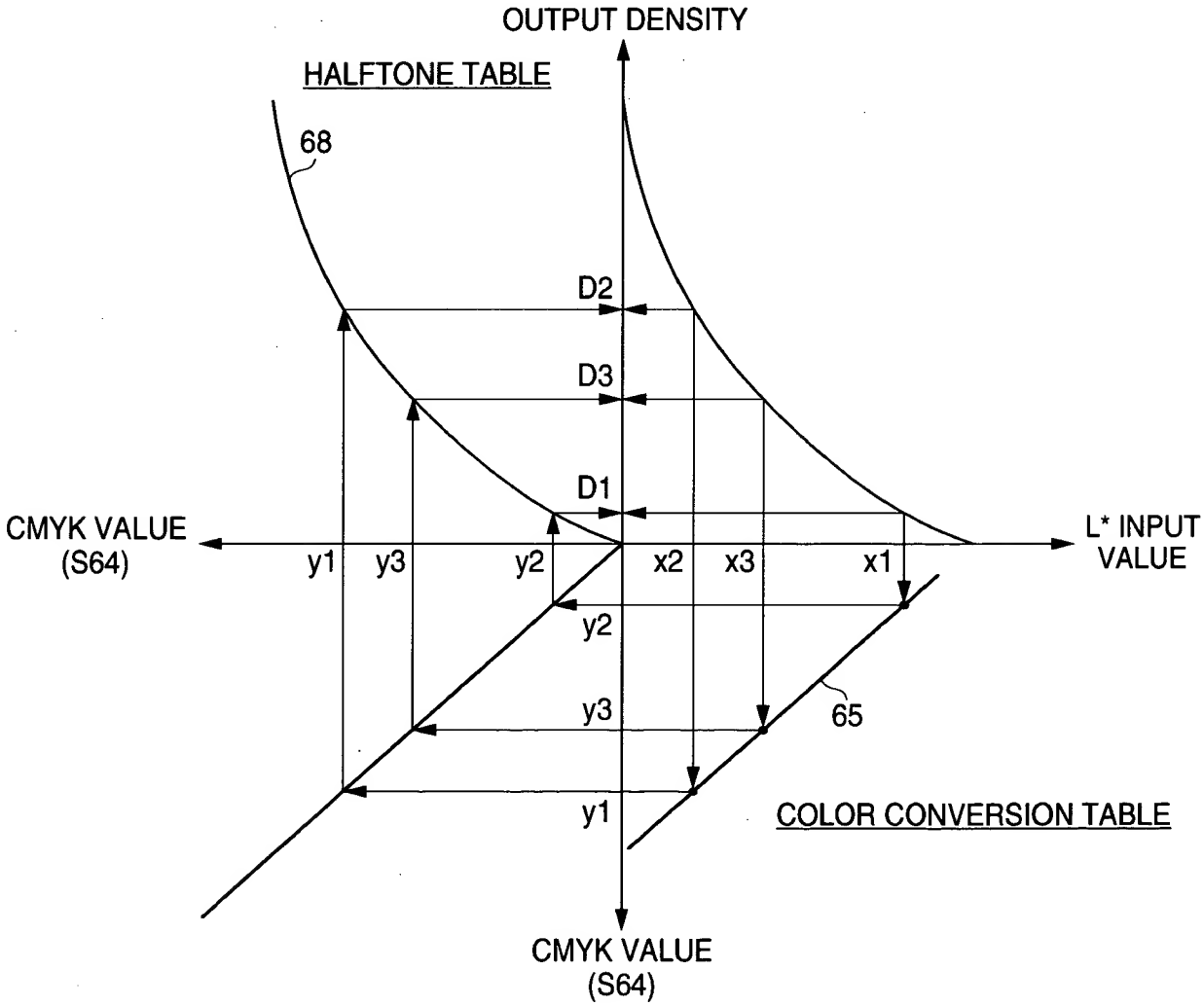


FIG. 9

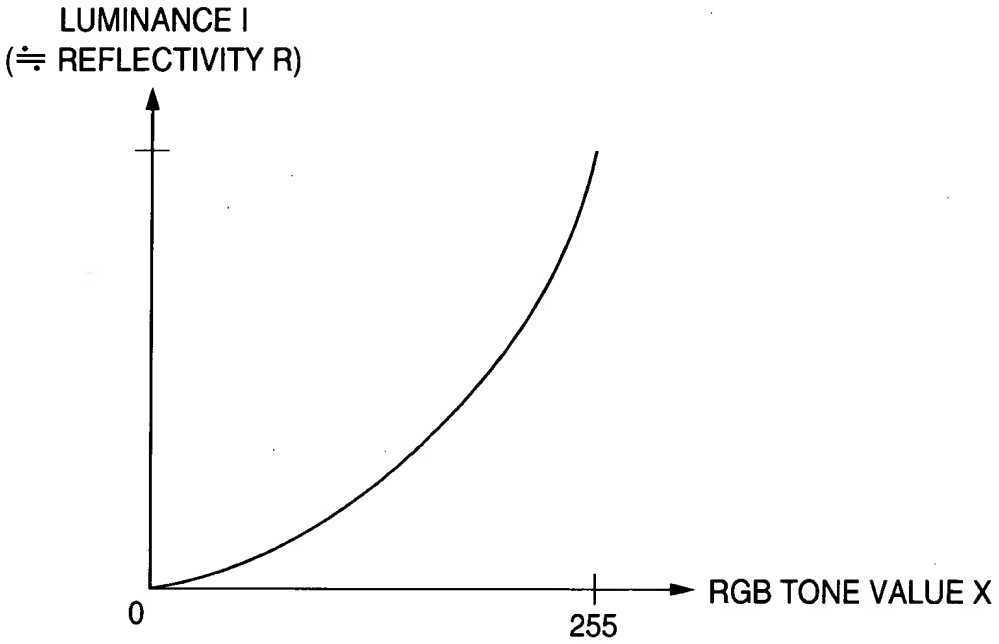
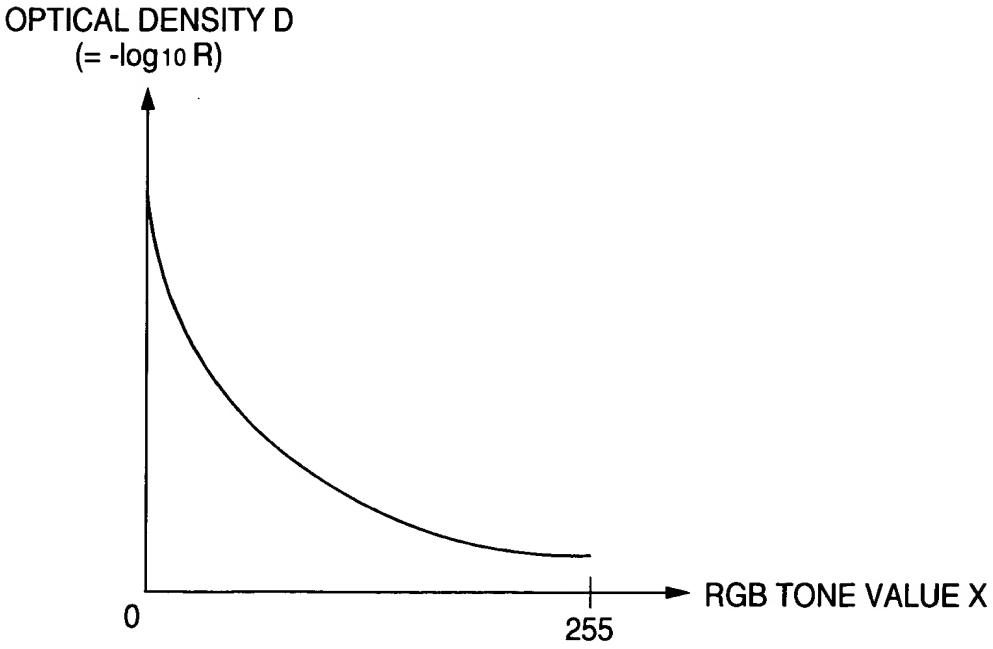


FIG. 10



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